BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK: Improvements CC Roads and CC Drains works at Agrahara Layout in Ward No.05 Byatarayanapura Sub Division

Estimate Cost Rs. 9900000.00

Sl.no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work.	Cum							
	For Culvert								
	2nd main Near Agrahara Bus Stand		1	4.90	2.00	1.10	10.78		
	Cross Road		1	9.50	2.00	1.20	22.80		
	Hospital road		1	8.70	2.00	1.20	20.88		
	8th Main 18th Cross		1	7.10	2.00	1.10	15.62		
	8th Main 17th Cross		1	4.80	2.00	1.10	10.56		
	7th Main 18th Cross		1	4.70	2.00	1.10	10.34		
	6th Main 18th Cross		1	7.00	2.00	1.10	15.40		
	D Kalappa Road		1	9.10	2.00	1.10	20.02		
			1	6.10	2.00	1.10	13.42		
	New Drain								
	Agrahara Layout								
	2nd Main Road		1	47.80	1.30	1.15	71.46		
	2nd Main To 4th Main 18th Cross Road		1	53.70	1.30	1.20	83.77		
	4th Main to 5th main 18th Crosss		1	50.90	1.30	1.20	79.40		
	5th Main to 6th Main 18th Cross		1	56.30	1.30	1.20	87.83		
	6th Main to Agrahara hospital		1	103.50	1.30	1.20	161.46		
	Agrahara hospital Back Side		1	107.00	1.30	1.10	153.01		
	D Kallappa road		1	67.00	1.30	1.10	95.81		
	New SSM Drain								
	D Kalappa Road								
			1	8.10	1.55	1.10	13.81		
	Agrahara Hospital		1	107.00	1.70	1.60	291.04		
	Hospital opposite		1	79.00	1.70	1.60	214.88		
	7th Main Bs Slab drain								
	13th to 12th Cross		2	23.00	0.55	0.38	9.61		
	12th to 11th Cross		2	23.00	0.55	0.380	9.61		
	11th to 10th Cross		2	24.00	0.55	0.370	9.77		
	10th to 9th Cross		1	48.40	0.55	0.37	9.94		
	9th to 8th Cross		2	24.20	0.55	0.37	9.85		
	12th Cross		1	7.00	0.55	0.45	1.73		
			10	0.28		2.00	5.60		
						Cum	**1448.41**	**137.80**	**199591.35**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
2	Removing B S Slab of Drain and stacking 7.5MM Thick, and as per the directions of the Engineer-in-charge of the work.	Sqm							
	7th Main Bs Slab drain								
	13th to 12th Cross		1	36.90	1.35		49.82		
	12th to 11th Cross		1	36.70	1.35		49.55		
	11th to 10th Cross		1	38.00	1.35		51.30		
	10th to 9th Cross		1	38.40	1.35		51.84		
	9th to 8th Cross		1	38.40	1.35		51.84		
	12th Cross		1	5.80	1.35		7.83		
						Sqm	**262.17**	**104.94**	**27512.12**
	Basic Rate	99.00							

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @6%	5.94							
	Total	**104.94**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm							
	7th Main Bs Slab drain								
	13th to 12th Cross		1	36.90	1.35		49.82		
	12th to 11th Cross		1	36.70	1.35		49.55		
	11th to 10th Cross		1	38.00	1.35		51.30		
	10th to 9th Cross		1	38.40	1.35		51.84		
	9th to 8th Cross		1	38.40	1.35		51.84		
	12th Cross		1	5.80	1.35		7.83		
						Sqm	**262.17**	**111.30**	**29179.52**
	Basic Rate	105.00							
	Area Weightage @6%	6.30							
	Total	**111.30**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .	Sqm							
	7th Main Bs Slab drain								
	13th to 12th Cross		1	9.10	1.35		12.29		
	12th to 11th Cross		1	9.30	1.35		12.56		
	11th to 10th Cross		1	9.00	1.35		12.15		
	10th to 9th Cross		1	10.00	1.35		13.50		
	9th to 8th Cross		1	9.80	1.35		13.23		
	12th Cross		1	1.20	1.35		1.62		
						Sqm	**65.34**	**742.00**	**48482.28**
	Basic Rate	700.00							
	Area Weightage @6%	42.00							
	Total	**742.00**							
5	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Culvert								
	3rd main Near Agrahara Bus Stand		1	4.90	2.00	0.15	1.47		
	Cross Road		1	9.50	2.00	0.15	2.85		
	hospital road		1	8.70	2.00	0.15	2.63		
	6th Main 18th Cross		1	7.10	2.00	0.15	2.13		
	6th Main 17th Cross		1	4.80	2.00	0.15	1.44		
	5th Main 18th Cross		1	4.70	2.00	0.15	1.41		
	5th Main 18th Cross		1	7.00	2.00	0.15	2.10		
	G kalappa Road		1	9.10	2.00	0.15	2.73		
			1	6.10	2.00	0.15	1.83		
	New Drain								
	Agrahara Layout								
	3rd Main Road		1	41.20	1.30	0.15	8.03		

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	3rd Main To 4th Main 18th Cross Road		1	53.70	1.30	0.15	10.47		
	4th Main to 5th main 18th Crosss		1	50.90	1.30	0.15	9.93		
	5th Main to 6th Main 18th Cross		1	56.30	1.30	0.15	10.98		
	6th Main to Agrahara hospital		1	103.50	1.30	0.15	20.18		
	Agrahara hospital Back Side		1	107.00	1.30	0.15	20.99		
	G kallappa road		1	67.00	1.20	0.15	12.06		
	New SSm Drain								
	G Kalappa Road		1	8.10	1.55	0.15	1.88		
	Agrahara Hospital		1	107.00	1.70	0.15	27.34		
	Hospital opposite		1	79.00	1.70	0.15	20.15		
						Cum	**160.40**	**3606.12**	**578421.65**
	Basic Rate	3402.00							
	Area Weightage @6%	204.12							
	Total	**3606.12**							
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work.	Cum							
	For Culvert								
	3rd main Near Agrahara Bus Stand		2	4.90	0.60	0.50	2.94		
	Cross Road		2	9.50	0.60	0.50	5.70		
	hospital road		2	8.70	0.60	0.50	5.22		
	6th Main 18th Cross		2	7.10	0.60	0.50	4.26		
	6th Main 17th Cross		2	4.80	0.60	0.50	2.88		
	5th Main 18th Cross		2	4.70	0.60	0.50	2.82		
	5th Main 18th Cross		2	7.00	0.60	0.50	4.20		
	G kalappa Road		2	9.10	0.60	0.50	5.46		
			2	6.10	0.60	0.50	3.66		
	New SSm Drain								
	G kalappa Road		2	8.10	0.60	0.45	4.37		
	Agrahara Hospital		2	107.00	0.60	0.20	25.68		
	Hospital opposite		2	79.00	0.60	0.20	18.96		
						Cum	**86.15**	**4871.76**	**419721.61**
	Basic Rate	4596.00							
	Area Weightage @6%	275.76							
	Total	**4871.76**							
7	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work.	Cum							
	For Culvert								
	3rd main Near Agrahara Bus Stand		2	4.90	0.50	0.45	2.21		
	Cross Road		2	9.50	0.50	0.45	4.28		
	hospital road		2	8.70	0.50	0.45	3.92		
	6th Main 18th Cross		2	7.10	0.60	0.45	3.83		
	6th Main 17th Cross		2	4.80	0.60	0.45	2.59		
	5th Main 18th Cross		2	4.70	0.60	0.45	2.54		
	5th Main 18th Cross		2	7.00	0.60	0.45	3.78		
	G kalappa Road		2	9.10	0.50	0.45	4.10		
			2	6.10	0.50	0.45	2.75		
	New SSm Drain								
	G kalappa Road		2	8.10	0.60	0.45	4.37		
	Agrahara Hospital		2	107.00	0.50	1.20	128.40		

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Hospital opposite		2	79.00	0.50	1.20	94.80		
						Cum	**257.55**	**5305.30**	**1366395.93**
	Basic Rate	5005.00							
	Area Weightage @6%	300.30							
	Total	**5305.30**							
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Agrahara Layout								
	3rd Main Road		4	47.80		0.865	165.41		
	3rd Main To 4th Main 18th Cross Road		4	53.70		0.90	193.32		
	4th Main to 5th main 18th Crosss		4	50.90		0.91	185.48		
	5th Main to 6th Main 18th Cross		4	56.30		0.88	198.63		
	6th Main to Agrahara hospital		4	103.50		1.00	414.00		
	Agrahara hospital Back Side		4	107.00		0.80	342.40		
	G kallappa road		4	67.00		0.80	214.40		
	For Culvert Slab								
	6th Main 18th Cross		1	7.10	0.60		4.26		
	6th Main 17th Cross		1	4.80	0.60		2.88		
	5th Main 18th Cross		1	4.70	0.60		2.82		
	5th Main 18th Cross		1	7.00	0.60		4.20		
	For Culvert Sides								
	6th Main 18th Cross		2	7.10		0.23	3.27		
	6th Main 17th Cross		2	4.80		0.23	2.21		
	5th Main 18th Cross		2	4.70		0.23	2.16		
	5th Main 18th Cross		2	7.00		0.23	3.22		
	For Culvert Sides								
	6th Main 18th Cross		2	1.80		0.23	0.83		
	6th Main 17th Cross		2	1.80		0.23	0.83		
	5th Main 18th Cross		2	1.80		0.23	0.83		
	5th Main 18th Cross		2	1.80		0.23	0.83		
						Sqm	**1741.96**	**309.52**	**539171.81**
	Basic Rate	292.00							
	Area Weightage @6%	17.52							
	Total	**309.52**							
9	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Culvert								
	Vent								
	3rd main Near Agrahara Bus Stand		1	4.90	0.60	0.15	0.44		
	Cross Road		1	9.50	0.60	0.15	0.86		
	hospital road		1	8.70	0.60	0.15	0.78		
	6th Main 18th Cross		1	7.10	0.60	0.15	0.64		
	6th Main 17th Cross		1	4.80	0.60	0.15	0.43		
	5th Main 18th Cross		1	4.70	0.60	0.15	0.42		
	5th Main 18th Cross		1	7.00	0.60	0.15	0.63		
	G kalappa Road		1	9.10	0.60	0.15	0.82		
			1	6.10	0.60	0.15	0.55		
	New SSm Drain								
	G kalappa Road For SSM drain		1	8.10	0.50	0.15	0.61		

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Agrahara Hospital		1	107.00	0.60	0.15	9.63		
	Hospital opposite		1	79.00	0.60	0.15	7.11		
	Side Wall								
	3rd main Near Agrahara Bus Stand		2	4.90	0.50	0.15	0.74		
	Cross Road		2	9.50	0.50	0.15	1.43		
	hospital road		2	8.70	0.50	0.15	1.31		
	6th Main 18th Cross		2	7.10	0.50	0.15	1.07		
	6th Main 17th Cross		2	4.80	0.50	0.15	0.72		
	5th Main 18th Cross		2	4.70	0.50	0.15	0.71		
	5th Main 18th Cross		2	7.00	0.50	0.15	1.05		
	G kalappa Road								
			2	9.10	0.50	0.15	1.37		
			2	6.10	0.50	0.15	0.92		
	G kalappa Road For SSM drain		2	8.10	0.50	0.20	1.62		
	Culvert Ramp								
	Cross Road		1	9.50	0.40	0.15	0.57		
						Cum	**34.39**	**5627.54**	**193550.80**
	Basic Rate	5309.00							
	Area Weightage @6%	318.54							
	Total	**5627.54**							
10	Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	For Culvert								
	3rd main Near Agrahara Bus Stand		2	4.90		0.50	4.90		
	Cross Road		2	9.50		0.50	9.50		
	hospital road		2	8.70		0.50	8.70		
	6th Main 18th Cross		2	7.10		0.50	7.10		
	6th Main 17th Cross		2	4.80		0.50	4.80		
	5th Main 18th Cross		2	4.70		0.50	4.70		
	5th Main 18th Cross		2	7.00		0.50	7.00		
	G kalappa Road								
			2	9.10		0.50	9.10		
			2	6.10		0.50	6.10		
	G kalappa Road For SSM drain		2	8.10		0.80	12.96		
	Agrahara Hospital		2	107.00		1.20	256.80		
	Hospital opposite		2	79.00		1.20	189.60		
						Cum	**521.26**	**223.66**	**116585.01**
	Basic Rate	211.00							
	Area Weightage @6%	12.66							
	Total	**223.66**							
11	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.875 cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	Bottom Raft								

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Agrahara Layout								
	3rd Main Road		1	47.80	1.10	0.15	7.89		
	3rd Main To 4th Main 18th Cross Road		1	53.70	1.10	0.15	8.86		
	4th Main to 5th main 18th Crosss			50.90	1.10	0.15	8.40		
	5th Main to 6th Main 18th Cross		1	56.30	1.05	0.15	8.87		
	6th Main to Agrahara hospital		1	103.50	1.00	0.15	15.53		
	Agrahara hospital Back Side		1	107.00	1.00	0.15	16.05		
	G kallappa road		1	91.90	1.05	0.15	14.47		
	Side Wall								
	Agrahara Layout								
	3rd Main Road		2	47.80	0.15	0.85	12.19		
	3rd Main To 4th Main 18th Cross Road		2	53.70	0.15	0.90	14.50		
	4th Main to 5th main 18th Crosss		2	50.90	0.15	0.80	12.22		
	5th Main to 6th Main 18th Cross		2	56.30	0.15	0.80	13.51		
	6th Main to Agrahara hospital		2	103.50	0.15	0.90	31.05		
	Agrahara hospital Back Side		2	107.00	0.15	0.80	25.68		
	G kallappa road		2	67.00	0.15	0.80	16.08		
	For Culvert Slab								
	6th Main 18th Cross		1	7.10	1.80	0.23	2.94		
	6th Main 17th Cross		1	4.80	1.80	0.23	1.99		
	5th Main 18th Cross		1	4.70	1.80	0.23	1.95		
	5th Main 18th Cross		1	7.00	1.80	0.23	2.90		
	For Rcc Drain Side Fillling								
	Agrahara Layout								
	3rd Main Road		1	47.80	0.15	0.15	1.08		
	3rd Main To 4th Main 18th Cross Road		1	53.70	0.15	0.15	1.21		
	4th Main to 5th main 18th Crosss		1	50.90	0.15	0.15	1.15		
	5th Main to 6th Main 18th Cross		1	56.30	0.15	0.15	1.27		
	6th Main to Agrahara hospital		1	103.50	0.15	0.15	2.33		
	G kallappa road		1	67.00	0.15	0.15	1.49		
	For SSm Drain								
	Agrahara Hospital		2	107.00	0.50	0.15	16.05		
						Cum	**239.02**	**5998.54**	**1433771.03**
	Basic Rate	5659.00							
	Area Weightage @6%	339.54							
	Total	**5998.54**							
12	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Tonne							
	for Drain 65 kg			197.40	0.065		13.14		
	for Culvert 90kg			9.770	0.09		0.66		
						Tonne	**14.18**	**75223.96**	**1066857.89**
	Basic Rate	70966.00							
	Area Weightage @6%	4257.96							
	Total	**75223.96**							
13	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Rcc Drain Side Fillling								

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Agrahara Layout								
	3rd Main Road		1	47.80	0.15	0.45	3.23		
	3rd Main To 4th Main 18th Cross Road		1	53.70	0.15	0.45	3.62		
	4th Main to 5th main 18th Crosss		1	50.90	0.15	0.45	3.44		
	5th Main to 6th Main 18th Cross		1	56.30	0.15	0.45	3.80		
	6th Main to Agrahara hospital		1	103.50	0.15	0.45	6.99		
	G kallappa road		1	67.00	0.15	0.45	4.52		
						Cum	**25.60**	**344.50**	**8817.82**
	Basic Rate	325.00							
	Area Weightage @6%	19.50							
	Total	**344.50**							
14	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Rcc Drain Side Fillling								
	Agrahara Layout								
	3rd Main Road		1	47.80	0.15	0.30	2.15		
	3rd Main To 4th Main 18th Cross Road		1	53.70	0.15	0.30	2.42		
	4th Main to 5th main 18th Crosss		1	50.90	0.15	0.30	2.29		
	5th Main to 6th Main 18th Cross		1	56.30	0.15	0.30	2.53		
	6th Main to Agrahara hospital		1	103.50	0.15	0.30	4.66		
	G kallappa road		1	67.00	0.15	0.30	3.02		
						Cum	**17.06**	**2001.28**	**34149.84**
	Basic Rate	1888.00							
	Area Weightage @6%	113.28							
	Total	**2001.28**							
15	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Agrahara Layout								
	3rd Main Road		1	47.80	0.90		43.02		
	3rd Main To 4th Main 18th Cross Road		1	53.7	0.90		48.33		
	4th Main to 5th main 18th Crosss		1	50.9	0.90		45.81		
	5th Main to 6th Main 18th Cross		1	56.3	0.90		50.67		
	6th Main to Agrahara hospital		1	103.5	0.90		93.15		
	Agrahara hospital Back Side		1	107.0	0.90		96.30		
	G kallappa road		1	67.0	0.90		60.30		
	For SSm Drain								
	Agrahara Hospital		1	103.5	1.20		124.20		
	G Kalappa Road		1	8.10	1.20		9.72		
						Sqm	**571.50**	**2337.00**	**1335595.50**
	Data Rate	**2337.00**							

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
16	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of the Engineer-in-charge of the work . (Data Rate)	Sqm							
	Agrahara Layout								
	3rd main Near Agrahara Bus Stand		1	4.90	1.50		7.35		
	Cross Road		1	9.50	1.50		14.25		
	hospital road		1	8.70	1.50		13.05		
	G kalappa Road								
			1	7.90	1.50		11.85		
			1	6.10	1.50		9.15		
						Sqm	**55.65**	**5418.00**	**301511.70**
	Data Rate	**5418.00**							
17	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge	Nos							
	Agrahara Layout								
	3rd Main Road		1	47.80			47.80		
	3rd Main To 4th Main 18th Cross Road		1	53.70			53.70		
	4th Main to 5th main 18th Crosss		1	50.90			50.90		
	5th Main to 6th Main 18th Cross			56.30			56.30		
	6th Main to Agrahara hospital		1	103.50			103.50		
					Total		312.20		
		Nos		466.30/0.45			693.78		
						Nos	**693.78**	**432.48**	**300045.01**
	Basic Rate	408.00							
	Area Weightage @6%	24.48							
	Total	**432.48**							
18	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge Primer Coat	Sqm							
	Agrahara Layout								
	3rd Main Road		1	47.80		0.30	14.34		
	3rd Main To 4th Main 18th Cross Road		1	53.70		0.30	16.11		
	4th Main to 5th main 18th Crosss		1	50.90		0.30	15.27		
	5th Main to 6th Main 18th Cross		1	56.30		0.30	16.89		
	6th Main to Agrahara hospital		1	103.5		0.30	31.05		
						Sqm	**93.66**	**53.00**	**4963.98**
	Basic Rate	50.00							
	Area Weightage @6%	3.00							
	Total	**53.00**							
19	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge	Sqm							
	Agrahara Layout								
	3rd Main Road		1	47.80		0.30	14.34		
	3rd Main To 4th Main 18th Cross Road		1	53.70		0.30	16.11		

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	4th Main to 5th main 18th Crosss		1	50.90		0.30	15.27		
	5th Main to 6th Main 18th Cross		1	56.30		0.30	16.89		
	6th Main to Agrahara hospital		1	103.50		0.30	31.05		
						Sqm	**93.66**	**102.82**	**9630.12**
	Basic Rate	97.00							
	Area Weightage @6%	5.82							
	Total	**102.82**							
20	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges	Mtr							
	Agrahara Layout		1	269.00			269.00		
						Mtr	**269.00**	**394.32**	**106072.08**
	Basic Rate	372.00							
	Area Weightage @6%	22.32							
	Total	**394.32**							
21	Laying Reinforced cement concrete pipe NP2/ Prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement martar 1:2 but excluding excavation, protection works, backfilling and masonry works in head walls and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Mtr							
	Agrahara Layout		10	2.50			25.00		
						Mtr	**25.00**	**5976.28**	**149407.00**
	Basic Rate	5638.00							
	Area Weightage @6%	338.28							
	Total	**5976.28**							
22	Providing 100mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	Agrahara Layout	Cum	10	0.28		0.60	1.68		
						Cum	**1.68**	**987.62**	**1659.20**
23	Providing 40mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	Agrahara Layout	Cum	10	0.28		0.40	1.12		
						Cum	**1.12**	**1091.43**	**1222.40**
24	Providing 20mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	Agrahara Layout								
	For Pit (Area-3.14xD2/4)	Cum	10	0.28		0.40	1.12		
						Cum	**1.12**	**1091.43**	**1222.40**
25	Providing fine aggregate 2.36 nominal size and as per the directions of the Engineer-in-								
	Agrahara Layout								
	For Pit (Area-3.14xD2/4)	Cum	10	0.28		0.30	0.84		
						Cum	**0.84**	**1091.43**	**916.80**
26	Loading and Unloading of stone boulders by manual means complete as per specificatiion and as per the directions of the Engineer-in-charge of the work .	Cum							
			Quantity vide item No-1				1448.41		
						Cum	**1448.41**	**60.42**	**87513.13**
	Basic Rate	57.00							
	Area Weightage @6%	3.42							
	Total	**60.42**							

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Name of work :- Improvements CC Roads & CC drains works at Agrahara layout in Ward No. 05

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
									8361968.76
							Grand Total		8461045.00
	For 12% Applicable GST							1003436.25	1015325.00
	For 4% KRIDL Charges							334478.75	338442.00
	For 1% DPR Charges & 1% PMC Charges							198000=00	84610.45
	Miscesallaneous Charges	L/S						2116=24	577.55
									9900000.00

Certificate:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2018-19
3. This Estimate Grant under SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane
4. The provisions were made in this estimate are necessary and adequate.
5. This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer 22/X/19
Bruhat Bangalore Mahanagara Palike

R. Naufal 15/10/2019
Assistant Executive Engineer
Project Yelahanka

Transheight Consultants Pvt. Ltd. Bangalore

Administrative Approval
Accorded For RS. 99.00 Lakhs only
Head of A/C P-3727
CER NO : 23 Dt: 04/11/19

E.E. (Project) 6/11/19

Technical Sanction
Accorded For RS 99.00 lacchs only
Head of A/C P3727
CER NO : 157 Dt: 06.11.2019

[TA] CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK: Improvements CC Roads and CC Drains Works at Kattigenahalli in Ward No.5 Byatarayanapura Sub Division

Estimate Cost Rs. 9900000

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	For new Rcc drains								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	1.55	1.05	496.20		
	Ashwathappa house to main road		1	351.40	1.55	1.00	544.67		
	kattigenahalli lake road		1	83.00	1.60	1.33	176.89		
	culverts								
	Along school to the ambrish house (LHS)		1	4.00	2.10	1.25	10.50		
	Along school to the ambrish house (LHS)		1	5.80	2.10	1.25	15.23		
	Along school to the ambrish house (LHS)		1	6.60	2.10	1.25	17.33		
	Along school to the ambrish house (LHS)		1	6.00	2.10	1.25	15.75		
	Along school to the ambrish house (LHS)		1	7.00	2.10	1.25	18.38		
	Along school to the ambrish house (LHS)		1	5.90	2.10	1.25	15.49		
	Along school to the ambrish house (LHS)		1	7.80	2.10	1.25	20.48		
						Cum	1330.9	137.80	183397.23
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
2	Removing B S Slab of Drain and stacking 7.5MM Thick, and as per the directions of the Engineer-in-charge of the work .	Sqm							
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya (L H S)		1	123.00	1.45		178.35		
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya (R H S)		1	127.40	1.45		184.73		
						Sqm	**363.08**	**104.94**	**38101.62**
	Basic Rate	99.00							
	Area Weightage @6%	5.94							
	Total	**104.94**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm							
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya (L H S)		1	123.00	1.45		178.35		
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya (R H S)		1	127.40	1.45		184.73		
						Sqm	**363.08**	**111.30**	**40410.80**
	Basic Rate	105.00							
	Area Weightage @6%	6.30							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**111.30**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .	Sqm							
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya (L H S)		1	37.00	1.45		53.65		
	7th B kuvempu nagara								
	Babita Beauty Parlor Road Till #118 Anushri nilaya(R H S)		1	25.50	1.45		36.98		
						Sqm	**90.63**	**742.00**	**67243.75**
	Basic Rate	700.00							
	Area Weightage @6%	42.00							
	Total	**742.00**							
5	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum							
	For new Rcc drains								
	Bottom concrete								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	1.40	0.15	63.84		
	Ashwathappa house to main road			351.40	1.40	0.15	73.79		
	kattigenahalli lake road		1	83.00	1.60	0.15	19.92		
	PCC FOR CULVERTS								
	Along school to the ambrish house (LHS)		1	4.00	2.00	0.15	1.20		
	Along school to the ambrish house (LHS)		1	5.80	2.00	0.15	1.74		
	Along school to the ambrish house (LHS)		1	6.60	2.00	0.15	1.98		
	Along school to the ambrish house (LHS)		1	6.00	2.00	0.15	1.80		
	Along school to the ambrish house (LHS)		1	7.00	2.00	0.15	2.10		
	Along school to the ambrish house (LHS)		1	5.90	2.00	0.15	1.77		
	Along school to the ambrish house (LHS)		1	7.80	2.00	0.15	2.34		
	ROAD PCC								
	Cross road		1	53.30	2.60	0.15	20.79		
	Cross road		1	31.70	2.60	0.15	12.36		
						Cum	**203.63**	**3606.12**	**734311.49**
	Basic Rate	3402.00							
	Area Weightage @6%	204.12							
	Total	**3606.12**							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	SSM for culverts								
	Along school to the ambrish house (LHS)		2	4.00	0.60	0.50	2.40		
	Along school to the ambrish house (LHS)		2	5.80	0.60	0.50	3.48		
	Along school to the ambrish house (LHS)		2	6.60	0.60	0.50	3.96		
	Along school to the ambrish house (LHS)		2	6.00	0.60	0.50	3.60		
	Along school to the ambrish house (LHS)		2	7.00	0.60	0.50	4.20		
	Along school to the ambrish house (LHS)		2	5.90	0.60	0.50	3.54		
	Along school to the ambrish house (LHS)		2	7.80	0.60	0.50	4.68		
							25.86	**4871.76**	**125983.71**
	Basic Rate	4596.00							
	Area Weightage @6%	275.76							
	Total	**4871.76**							
7	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	SSM for culverts								
	Along school to the ambrish house (LHS)		2	4.00	0.50	0.45	1.80		
	Along school to the ambrish house (LHS)		2	5.80	0.50	0.45	2.61		
	Along school to the ambrish house (LHS)		2	6.60	0.50	0.45	2.97		
	Along school to the ambrish house (LHS)		2	6.00	0.50	0.45	2.70		
	Along school to the ambrish house (LHS)		2	7.00	0.50	0.45	3.15		
	Along school to the ambrish house (LHS)		2	5.90	0.50	0.45	2.66		
	Along school to the ambrish house (LHS)		2	7.80	0.50	0.45	3.51		
						Cum	**19.40**	**5305.30**	**102896.29**
	Basic Rate	5005.00							
	Area Weightage @6%	300.30							
	Total	**5305.30**							
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	SHUTTERING								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		4	304.00		0.79	954.56		
	Ashwathappa house to main road		4	351.40		0.60	836.33		
	kattigenahalli lake road		4	83.00		1.00	331.34		
						Sqm	**2122.23**	**309.52**	**656872.01**
	Basic Rate	292.00							
	Area Weightage @6%	17.52							
	Total	**309.52**							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
9	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	SSM Coping concrete								
	Along school to the ambrish house (LHS)		2	4	0.5	0.15	0.6		
	Along school to the ambrish house (LHS)		2	5.80	0.50	0.15	0.87		
	Along school to the ambrish house (LHS)		2	6.60	0.50	0.15	0.99		
	Along school to the ambrish house (LHS)		2	6.00	0.50	0.15	0.90		
	Along school to the ambrish house (LHS)		2	7.00	0.50	0.15	1.05		
	Along school to the ambrish house (LHS)		2	5.90	0.50	0.15	0.89		
	Along school to the ambrish house (LHS)		2	7.80	0.50	0.15	1.17		
	Vent bed								
	Along school to the ambrish house (LHS)		1	4.00	0.50	0.20	0.40		
	Along school to the ambrish house (LHS)		1	5.80	0.50	0.20	0.58		
	Along school to the ambrish house (LHS)		1	6.60	0.50	0.20	0.66		
	Along school to the ambrish house (LHS)		1	6.00	0.50	0.20	0.60		
	Along school to the ambrish house (LHS)		1	7.00	0.50	0.20	0.70		
	Along school to the ambrish house (LHS)		1	5.90	0.50	0.20	0.59		
	Along school to the ambrish house (LHS)		1	7.80	0.50	0.20	0.78		
	Culvert Ramp								
	Along school to the ambrish house (LHS)		2	5.80	0.45	0.20	1.04		
	Along school to the ambrish house (LHS)		2	6.60	0.45	0.20	1.19		
	Along school to the ambrish house (LHS)		2	6.00	0.45	0.20	1.08		
	Along school to the ambrish house (LHS)		2	7.00	0.45	0.20	1.26		
	Along school to the ambrish house (LHS)		2	5.90	0.45	0.20	1.06		
	School Front Ramp		2	5.00	0.60	0.23	1.38		
						Cum	**17.79**	**5627.54**	**100108.31**
	Basic Rate	5309.00							
	Area Weightage @6%	318.54							
	Total	**5627.54**							
10	Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Pointing for SSm Culvert								
	Along school to the ambrish house (LHS)		2	4.00		0.75	6.00		
	Along school to the ambrish house (LHS)		2	5.80		0.75	8.70		
	Along school to the ambrish house (LHS)		2	6.60		0.75	9.90		
	Along school to the ambrish house (LHS)		2	6.00		0.75	9.00		
	Along school to the ambrish house (LHS)		2	7.00		0.75	10.50		
	Along school to the ambrish house (LHS)		2	5.90		0.75	8.85		
	Along school to the ambrish house (LHS)		2	7.80		0.75	11.70		
						Cum	**64.65**	**223.66**	**14459.62**
	Basic Rate	211.00							
	Area Weightage @6%	12.66							
	Total	**223.66**							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.875 cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	For new Rcc drains								
	bottom concrete								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	1.1	0.15	50.12		
	RHS Ashwathappa house to main road		1	351.40	1.1	0.15	59.56		
	kattigenahalli lake road		1	83.00	1.30	0.15	16.19		
	side wall								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		2	304.00	0.15	0.8	73.87		
	Ashwathappa house to main road		2	351.40	0.15	0.6	64.83		
	kattigenahalli lake road		2	83.00	0.20	1.10	36.52		
	Drain side Filling								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	0.15	0.15	6.84		
	Ashwathappa house to main road		1	351.40	0.15	0.15	7.91		
	kattigenahalli lake road		1	83.00	0.15	0.15	1.87		
						Cum	**317.70**	**5998.54**	**1905748.72**
	Basic Rate	5659.00							
	Area Weightage @6%	339.54							
	Total	**5998.54**							
12	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Tonne							
	for Drain 65 kg			317.70	0.065		22.58		
						Tonne	**22.58**	**75223.96**	**1698632.24**
	Basic Rate	########							
	Area Weightage @6%	4257.96							
	Total	########							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
13	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) and as per the directions of the Engineer-in-charge of the work .	Cum							
	Drain side Filling								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	0.15	0.45	20.52		
	Ashwathappa house to main road		1	351.40	0.15	0.45	23.72		
	kattigenahalli lake road		1	83.00	0.15	0.45	5.60		
							49.84	**344.50**	**17170.57**
	Basic Rate	325.00							
	Area Weightage @6%	19.50							
	Total	**344.50**							
14	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	Drain side Filling								
	Drain kattiganahalli 1st main								
	From school to the (LHS)ambrish house		1	304.00	0.15	0.30	13.68		
	Ashwathappa house to main road			351.40	0.15	0.30	15.81		
	kattigenahalli lake road		1	83.00	0.15	0.30	3.74		
							33.23	**2001.28**	**66498.53**
	Basic Rate	1888.00							
	Area Weightage @6%	113.28							
	Total	**2001.28**							
15	Cement Concrete Pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing side of 125 micron thick	Cum							
	Cross Road		1	53.30	2.75	0.15	21.69		
	Cross Road			31.70	2.41	0.15	11.46		
							Cum **33.15**	**5210.96**	**172743.32**
	Basic Rate	4916.0							
	Area Weightage @6%	295							
	Total	**5210.96**							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
16	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift complete as per specifications and directions of Engineer in charge of work.	sqm							
	Cross Road		1	53.30	2.76		147.00		
	Cross Road		1	31.70	2.34		74.05		
						sqm	**221.05**	**72.08**	**15933.09**
	Basic Rate	68.00							
	Area Weightage @6%	4.08							
	Total	**72.08**							
17	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .	Sqm							
	PRE CAST SLAB								
	From school to the (LHS)ambrish house		1	304.00	1.00		303.39		
	Ashwathappa house to main road		1	351.40	0.90		314.50		
	kattigenahalli lake road			83.00	1.5		123.75		
						Sqm	**741.51**	**2337.00**	**1732908.87**
	data rate	2337.00							
18	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete and as per the directions of the Engineer-in-charge of the work .	Mtr							
			1	179.00			179.00		
						Mtr	**179.00**	**394.32**	**70583.28**
	Basic Rate	372.00							
	Area Weightage @6%	22.32							
	Total	**394.32**							
19	Laying Reinforced cement concrete pipe NP2/ Prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement martar 1:2 but excluding excavation, protection works, backfilling and masonry works in head walls and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Mtr							
			8	2.50			20.00		
						Mtr	**20.00**	**5976.28**	**119525.60**
	Basic Rate	5638.00							
	Area Weightage @6%	338.28							

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**5976.28**							
20	Providing 100mm and down nominal size and as per the directions of the Engineer-in-charge of the work .	Cum							
			8	0.28		0.60	1.34		
						Cum	**1.34**	**987.62**	**1327.36**
21	Providing 40mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
		Cum	8	0.28		0.40	0.90		
						Cum	**0.90**	**1091.43**	**977.92**
22	Providing 20mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	For Pit (Area-3.14xD2/4)	Cum	8	0.28		0.40	0.90		
						Cum	**0.90**	**1091.43**	**977.92**
23	Providing fine aggregate 2.36 nominal size and as per the directions of the Engineer-in-charge of the work .								
	For Pit (Area-3.14xD2/4)	Cum	8	0.28		0.30	0.67		
						Cum	**0.67**	**1054.29**	**708.48**
24	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete. and as per the directions of the Engineer-in-charge of the work .								
	Culvert cover slab								
	Along school to the ambrish house (LHS)	Sqm	1	4.00	1.50		6.00		
	Along school to the ambrish house (LHS)	Sqm	1	5.80	1.50		8.70		
	Along school to the ambrish house (LHS)	Sqm	1	6.60	1.50		9.90		
	Along school to the ambrish house (LHS)	Sqm	1	6.00	1.50		9.00		
	Along school to the ambrish house (LHS)	Sqm	1	7.00	1.50		10.50		
	Along school to the ambrish house (LHS)	Sqm	1	5.90	1.50		8.85		
	Along school to the ambrish house (LHS)	Sqm	1	7.80	1.50		11.70		
	Near Maramma temple	Sqm	1	8.00	1.50		12.00		
	data rate	**5418.00**					**76.65**	**5418.00**	**415289.70**
25	Loading and Unloading of stone boulders by manual means complete as per specificatiion and as per the directions of the Engineer-in-charge of the work .	Cum							
			Quantity vide item No-1						
						Cum	**1330.89**	**60.42**	**80412.63**
	Basic Rate	57.00							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Area Weightage @ 6%	3.42							
Total	**60.42**							8363223.08
						Grand Total		**8460723.00**
For 12% Applicable GST							1003586.77	1015287.00
For 4% KRIDL Charges							334528.92	338429.00
For 1% DPR Charges & 2% PMC Charges							198000=00	84607.23
Miscesallaneous Charges	L/S						661=00	953.77
								9900000.00

Note:

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per PWD SR of 2018-19
This Estimate Grant under SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05(Jakkur)

Assistant Executive Engineer
Project Yelahanka
15/10/2019

Executive Engineer
Bruhat Bangalore Mahanagara Palike
22/x/19

Administrative Approval

Accorded For 25.99.00 Lakhs only
Head of A/C P-3727
CER NO :22 Dt:04/11/2019

E.E. (Project) 6/11/19

Technical Sanction

Accorded For R.S 99.00 Lakhs only
Head of A/C P3727
CER NO :156 Dt:6.11.2019

SE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK: Improvements to CC Roads and CC Drains works at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division

Estimate Cost Rs. 9900000.00

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Culvert								
			1	6.30	2.10	0.75	9.92		
			1	6.00	2.10	1.00	12.60		
			1	2.50	2.10	1.00	5.25		
			1	3.70	2.10	1.00	7.77		
			1	4.40	2.10	1.00	9.24		
	1st Main 4thA Cross		1	6.10	2.10	1.00	12.81		
	5th Cross		1	8.40	2.10	1.00	17.64		
			1	5.40	2.10	1.00	11.34		
	New Drain								
	Kogilu Layout								
	bande Main Road		1	466.30	1.55	0.92	662.99		
	Sai Baba Temple Road		2	120.00	1.20	1.10	316.80		
			12	0.28		2.00	6.72		
	For Drain Desilt								
	1st main Bond Road		1	38.20	0.60	0.45	10.31		
	1st main Bond Road		1	11.80	0.60	0.45	3.19		
	1st main Bond Road		1	21.00	0.60	0.45	5.67		
	1st main Bond Road		1	99.00	0.60	0.45	26.73		
	1st main Bond Road		1	37.00	0.60	0.45	9.99		
	1st main Bond Road		1	33.00	0.60	0.45	8.91		
	1st main Bond Road		1	25.00	0.60	0.45	6.74		
	1st main Bond Road		1	37.00	0.60	0.45	9.99		
	1st main Bond Road		1	36.00	0.60	0.45	9.72		
	For CCRoad								
	St michel School Road		1	98.00	4.9	0.30	145.10		
	Jai Bheem Nagar		1	17.00	4.8	0.30	24.41		
	Ambedkar Bhavan Road		1	17.00	5.50	0.30	28.05		
						Cum	**1361.89**	**137.80**	**187669.03**
	Basic Rate	130.00							
	Area Weightage @6%	7.80							
	Total	**137.80**							
2	Removing B S Slab of Drain and stacking 7.5MM Thick, and as per the directions of the Engineer-in-charge of the work	Sqm							
	1st main Bond Road		1	30.00	1.65		49.50		
	1st main Bond Road		1	9.80	1.65		16.17		
	1st main Bond Road		1	16.00	1.65		26.40		
	1st main Bond Road		1	80.00	1.65		132.00		
	1st main Bond Road		1	29.50	1.65		48.68		
	1st main Bond Road		1	26.50	1.65		43.73		
	1st main Bond Road		1	20.00	1.65		33.00		
	1st main Bond Road		1	29.50	1.65		48.68		
	1st main Bond Road		1	28.50	1.65		47.03		
						Sqm	**445.17**	**104.94**	**46716.14**
	Basic Rate	99.00							
	Area Weightage @6%	5.94							
	Total	**104.94**							

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
3	Refixing stone slabs of drains and pointing in C.M (1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm							
	1st main Bond Road		1	30.00	1.65		49.50		
	1st main Bond Road		1	9.80	1.65		16.17		
	1st main Bond Road		1	16.00	1.65		26.40		
	1st main Bond Road		1	80.00	1.65		132.00		
	1st main Bond Road		1	29.50	1.65		48.68		
	1st main Bond Road		1	26.50	1.65		43.73		
	1st main Bond Road		1	20.00	1.65		33.00		
	1st main Bond Road		1	29.50	1.65		48.68		
	1st main Bond Road		1	28.50	1.65		47.03		
						Sqm	**445.17**	**111.30**	**49547.42**
	Basic Rate	105.00							
	Area Weightage @6%	6.30							
	Total	**111.30**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .	Sqm							
			1	8.50	1.65		14.03		
	1st main Bond Road		1	2.00	1.65		3.30		
	1st main Bond Road		1	5.00	1.65		8.25		
	1st main Bond Road		1	19.00	1.65		31.35		
	1st main Bond Road		1	7.50	1.65		12.38		
	1st main Bond Road		1	6.50	1.65		10.73		
	1st main Bond Road		1	8.00	1.65		13.20		
	1st main Bond Road		1	7.50	1.65		12.38		
	1st main Bond Road		1	7.50	1.65		12.38		
						Sqm	**117.98**	**742.00**	**87537.45**
	Basic Rate	700.00							
	Area Weightage @6%	42.00							
	Total	**742.00**							
5	Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of the work.	Cum							
	For Culvert								
			1	6.30	2.10	0.15	1.98		
			1	6.00	2.10	0.15	1.89		
			1	2.50	2.10	0.15	0.79		
			1	3.70	2.10	0.15	1.17		
			1	4.40	2.10	0.15	1.39		
	1st Main 4thA Cross		1	6.10	2.10	0.15	1.92		
	5th Cross		1	8.40	2.10	0.15	2.65		
			1	5.40	2.10	0.15	1.70		
	New Drain								
	Kogilu Layout								
	bande Main Road		1	466.30	1.55	0.15	108.41		
	Sai Baba Temple Road		1	240.00	1.20	0.15	43.24		
	St michel School Road			98.00	4.91	0.15	72.22		
	Jai Bheem Nagar			17.00	4.90	0.15	12.50		

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Sl no.	Description of Item	Unit	No	L	B	D	Quantity	Rate	Amount
	Ambedkar Bhavan Road		1	17.00	5.50	0.15	14.03		
						Cum	263.87	3606.12	951560.77
	Basic Rate	3402.00							
	Area Weightage @6%	204.12							
	Total	**3606.12**							
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum							
	For Culvert								
			2	6.30	0.60	0.50	3.78		
			2	6.00	0.60	0.50	3.60		
			2	2.50	0.60	0.50	1.50		
			2	3.70	0.60	0.50	2.22		
			2	4.40	0.60	0.50	2.64		
	1st Main 4thA Cross		2	6.10	0.60	0.50	3.66		
	5th Cross		2	8.40	0.60	0.50	5.04		
			2	5.40	0.60	0.50	3.24		
						Cum	25.68	4871.76	125106.80
	Basic Rate	4596.00							
	Area Weightage @6%	275.76							
	Total	**4871.76**							
7	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum							
	For Culvert								
			2	6.30	0.50	0.45	2.84		
			2	6.00	0.50	0.45	2.70		
			2	2.50	0.50	0.45	1.13		
			2	3.70	0.50	0.45	1.67		
			2	4.40	0.50	0.45	1.98		
	1st Main 4thA Cross		2	6.10	0.50	0.45	2.75		
	5th Cross		2	8.40	0.50	0.45	3.78		
			2	5.40	0.50	0.45	2.43		
						Cum	19.26	5305.30	102180.08
	Basic Rate	5005.00							
	Area Weightage @6%	300.30							
	Total	**5305.30**							
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Kogilu Layout		4	466.30		0.65	1219.19		
	bande Main Road		4	240.00		0.81	777.60		
	Sai Baba Temple Road					Sqm	1996.79	309.52	618045.82
	Basic Rate	292.00							
	Area Weightage @6%	17.52							
	Total	**309.52**							

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Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
9	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Culvert Vent bed								
			1	6.3	0.6	0.15	0.567		
			1	6.00	0.50	0.15	0.45		
			1	2.50	0.50	0.15	0.19		
			1	3.70	0.50	0.15	0.28		
			1	4.40	0.50	0.15	0.33		
	1st Main 4thA Cross		1	6.10	0.50	0.15	0.46		
	5th Cross		1	8.40	0.50	0.15	0.63		
			1	5.40	0.50	0.15	0.41		
	For Side								
			2	6.30	0.50	0.15	0.95		
			2	6.00	0.50	0.15	0.90		
			2	2.50	0.50	0.15	0.38		
			2	3.70	0.50	0.15	0.56		
			2	4.40	0.50	0.15	0.66		
	1st Main 4thA Cross		2	6.10	0.50	0.15	0.92		
	5th Cross		2	8.40	0.50	0.15	1.26		
			2	5.40	0.50	0.15	0.81		
						Cum	**9.72**	**5627.54**	**54725.01**
	Basic Rate	5309.00							
	Area Weightage @6%	318.54							
	Total	**5627.54**							
10	Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	For Culvert								
			2	6.30		0.45	5.67		
			2	6.00		0.70	8.40		
			2	2.50		0.70	3.50		
			2	3.70		0.70	5.18		
			2	4.40		0.70	6.16		
	1st Main 4thA Cross		2	6.10		0.70	8.54		
	5th Cross		2	8.40		0.70	11.76		
			2	5.40		0.70	7.56		
						Sqm	**56.77**	**223.66**	**12697.18**
	Basic Rate	211.00							
	Area Weightage @6%	12.66							
	Total	**223.66**							

Transheight Consultants Pvt. Ltd., Bangalore

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
11	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.875 cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	Bottom Raft								
	Kogilu Layout								
	bande Main Road	Cum	1	466.30	1.10	0.15	76.94		
	Sai Baba Temple Road	Cum	2	120.00	1.10	0.15	39.60		
	bande Main Road	Cum	2	466.30	0.15	0.65	91.26		
	Sai Baba Temple Road	Cum	4	120.00	0.15	0.80	57.60		
	bande Main Road	Cum	1	466.30	0.15	0.15	10.49		
						Cum	**275.89**	**5998.54**	**1654928.15**
	Basic Rate	5659.00							
	Area Weightage @6%	339.54							
	Total	**5998.54**							
12	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Tonne							
	for Drain 75 kg			265.40	0.075		19.90		
						Tonne	**19.90**	**75223.96**	**1497314.54**
	Basic Rate	70966.00							
	Area Weightage @6%	4257.96							
	Total	**75223.96**							
13	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications.(Which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) and as per the directions of the Engineer-in-charge of the work .	Cum							
	Kogilu Layout								
	bande Main Road		1	466.30	0.15	0.45	31.48		
	For Cc Road								
	St michel School Road		1	98.00	4.34	0.34	144.61		
	Jai Bheem Nagar		1	17.00	4.90	0.30	24.99		
	Ambedkar Bhavan Road		1	17.00	5.50	0.30	28.05		
						Cum	**229.13**	**344.50**	**78934.38**
	Basic Rate	325.00							
	Area Weightage @6%	19.50							
	Total	**344.50**							

Transheight Co... Pvt. Ltd. Bangalore

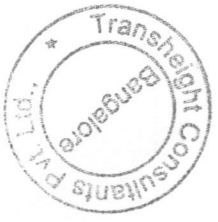
Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
14	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Cum							
	For Rcc Drain Side Fillling								
	Kogilu Layout								
	bande Main Road		1	466.30	0.15	0.30	20.98		
						Cum	**20.98**	**2001.28**	**41993.86**
	Basic Rate	1888.00							
	Area Weightage @6%	113.28							
	Total	**2001.28**							
15	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Kogilu Layout								
	bande Main Road		1	466.30	0.90		419.67		
	Aruna Communication		1	40.00	0.90		36.00		
						Sqm	**455.67**	**2337.00**	**1064900.79**
	Data Rate	**2337.00**							
16	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per the directions of the Engineer-in-charge of the work . (Data Rate)	Sqm							
	For Culverts								
			1	6.30	1.50		9.45		
			1	6.00	1.50		9.00		
			1	2.50	1.50		3.75		
			1	3.70	1.50		5.55		
			1	4.40	1.50		6.60		
	1st Main 4thA Cross		1	6.10	1.50		9.15		
	5th Cross		1	8.40	1.50		12.60		
			1	5.40	1.50		8.10		
						Sqm	**64.20**	**5418.00**	**347835.60**
	Data Rate	**5418.00**							
17	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 for raft foundation, column footing, main and secondary beams. and as per the directions of the Engineer-in-charge of the work	Cum							
	For Cc Road								

Transhaight Consultants Pvt. Ltd., Bangalore

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	St michel School Road		1	98.00	4.92	0.15	72.28		
	Jai Bheem Nagar		1	17.00	4.90	0.15	12.50		
	Ambedkar Bhavan Road		1	17.00	5.50	0.15	14.03		
						Cum	**98.80**	**5210.96**	**514831.38**
	Basic Rate	4916.00							
	Area Weightage @6%	294.96							
	Total	**5210.96**							
18	Vaccum De- watering with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift and as per the directions of the Engineer-in-charge of the work	Sqm							
	For Cc Road								
	St michel School Road		1	98.00	4.92		481.85		
	Jai Bheem Nagar		1	17.00	4.90		83.30		
	Ambedkar Bhavan Road		1	17.00	5.50		93.50		
						Sqm	**658.65**	**72.08**	**47475.64**
	Basic Rate	68.00							
	Area Weightage @6%	4.08							
	Total	**72.08**							
19	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete and as per the directions of the Engineer-in-charge of the work .	Mtr							
	bande Main Road		1	357.60			357.60		
						Mtr	**357.60**	**394.32**	**141008.83**
	Basic Rate	372.00							
	Area Weightage @6%	22.32							
	Total	**394.32**							
20	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge	Nos							
	Kogilu Layout								
	bande Main Road		1	466.30			466.30		
				466.30/0.45			1036.22		
						Nos	**1036.22**	**432.48**	**448145.39**
	Basic Rate	408.00							
	Area Weightage @6%	24.48							
	Total	**432.48**							
21	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge [Primer Coat]	Sqm							

Transheight Consultants Pvt. Ltd. Bangalore

Sl no.	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	bande Main Road		1	466.30		0.30	139.89		
						Sqm	**139.89**	**53.00**	**7414.17**
	Basic Rate	50.00							
	Area Weightage @6%	3.00							
	Total	**53.00**							
22	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification As per the direction of Engineer incharge	Sqm							
	bande Main Road		1	466.30		0.30	139.89		
						Sqm	**139.89**	**102.82**	**14383.49**
	Basic Rate	97.00							
	Area Weightage @6%	5.82							
	Total	**102.82**							
23	Laying Reinforced cement concrete pipe NP2/ Prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement martar 1:2 but excluding excavation, protection works, backfilling and masonry works in head walls and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Mtr							
	Agrahara Layout		12	2.50			30.00		
						Mtr	**30.00**	**5976.28**	**179288.40**
	Basic Rate	5638.00							
	Area Weightage @6%	338.28							
	Total	**5976.28**							
24	Providing 100mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	Agrahara Layout	Cum	12		0.28	0.60	2.02		
						Cum	**2.02**	**987.62**	**1991.04**
25	Providing 40mm and down nominal size and as per the directions of the Engineer-in-charge of the work								
	Agrahara Layout	Cum	12		0.28	0.40	1.34		
						Cum	**1.34**	**1091.43**	**1466.88**
26	Providing 20mm and down nominal size and as per the directions of the Engineer-in-charge of the work .								
	Agrahara Layout								
	For Pit (Area-3.14xD2/4)	Cum	12		0.28	0.40	1.34		
						Cum	**1.34**	**1091.43**	**1466.88**
27	Providing fine aggregate 2.36 nominal size and as per the directions of the Engineer-in-								
	Agrahara Layout								
	For Pit (Area-3.14xD2/4)	Cum	12		0.28	0.30	1.01		
						Cum	**1.01**	**1054.29**	**1062.72**
28	Loading and Unloading of stone boulders by manual means complete as per specificatiion and as per the directions of the Engineer-in-charge of the work .	Cum							
			Quantity vide item No-1				1361.89		
						Cum	**1361.89**	**60.42**	**82285.65**
	Basic Rate	57.00							
	Area Weightage @6%	3.42							
	Total	**60.42**							



Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
									8362513.50
							Grand Total		8460344.00
28	For 12% Applicable GST							1003501.62	1015241.00
29	For 4% KRIDL Charges							334500.54	338414.00
30	For 1% DPR Charges & 1% PMG Charges							198000=00	84603.44
31	Miscesallaneous Charges	L/S						1484.34	1397.56
									9900000.00

Certificate:

1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2018-19
3. This Estimate Grant under SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane
4. The provisions were made in this estimate are necessary and adequate.
5. This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer 22/x/19
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer 15/10/19
Project Yelahanka

Transheight Cons Bangalore Pvt Ltd

Administrative Approval
Accorded For RS-99-10 Lakhs only
Head of A/C P-3727
CER NO : 24 Dt: 04/11/2019

E.E. (Project) 4/11

Technical Sanction
Accorded For RS99.10 lakhs only
Head of A/C P 3727
CER NO : 158 Dt: 06.11.2019

TA CE (YNK)

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

Estimate Cost Rs. 9900000.00

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	for New CC Drain								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS								
			1	66.5	1.40	0.9	83.42		
	RHS								
			1	56	1.40	0.9	68.68		
	Govt School Connecting Road								
	RHS								
			1	58.8	1.40	0.9	71.87		
	Govt School Road								
	RHS								
			1	100.5	1.40	0.9	127.05		
	Vinayaka Nagara 7th Cross								
	RHS								
			1	113.5	1.40	1.0	153.35		
	LHS								
			1	136.9	1.40	0.95	182.13		
	Vinayaka Layout 6th Cross								
	RHS								
			1	72	1.40	0.9	89.11		
	7th to 6th Cross								
	RHS								
			1	36.1	1.40	0.9	47.00		
	6th to 5th								
	LHS								
			1	29.1	1.30	1.0	35.94		
	RHS								
			1	29.1	1.30	0.9	'33.06		
	7th cross Cross Rd 2								
	LHS								
			1	54	1.40	0.9	65.02		
	7th cross Cross Rd 2								
	RHS								
			1	54	1.40	0.9	65.02		
	for Culverts								
	Govt School Connecting Road		1	7.7	1.8	0.80	11.09		
	Front of Srinivas Sai Residency		1	5.8	2	0.80	9.28		
	Vinayaka Nagara 7th Cross		1	7.2	2	0.80	11.52		
			1	8	2	0.80	12.80		
			1	6.5	2	0.80	10.40		

			1	8.3	2	0.80	13.28		
	Temple to Appartment		1	5.8	1.8	0.80	8.35		
	Vinayakanagara 1st main		1	6.8	1.8	0.80	9.79		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS		1	65.7	2.1	0.7	101.68		
	for Desilting of Drain		1	245	0.35	0.3	25.73		
						Cum	**1235.57**	137.80	**170261.07**
	Basic Rate	130							
	Area Weightage @6%	7.8							
	Total	**137.8**							
2	Removing B S Slab of Drain and stacking 7.5MM Thick, and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Cross Road		1	195.00	1.80		351.00		
						Sqm	**351.00**	104.94	**36833.94**
	Basic Rate	99							
	Area Weightage @6%	5.94							
	Total	**104.94**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Cross Road		1	195	1.8		351.00		
						Sqm	**351.00**	111.30	**39066.30**
	Basic Rate	105							
	Area Weightage @6%	6.3							
	Total	**111.3**							
4	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc and as per the directions of the Engineer-in-charge of the work .	Sqm							
	Cross Road		1	49.00	1.80		88.20		
						Sqm	**88.20**	742.00	**65444.40**
	Basic Rate	700							
	Area Weightage @6%	42							
	Total	**742**							
5	PConstruction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs, with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with	Cum							
	For CC Drains								
	Baskaramma Nilaya								
	Cross Road-1								

	LHS									
			1	66.5	1.40	0.15	13.97			
	RHS									
			1	56	1.40	0.15	11.76			
	Govt School Connecting Road									
	RHS									
			1	58.8	1.40	0.15	12.35			
	Govt School Road									
	RHS									
			1	100.5	1.40	0.15	21.11			
	Vinayaka Nagara 7th Cross									
	RHS									
			1	113.5	1.40	0.15	23.84			
	LHS									
			1	137.2	1.40	0.15	28.81			
	Vinayaka Layout 6th Cross									
	RHS									
			1	72	1.40	0.15	15.12			
	7th to 6th Cross									
	RHS									
			1	36.1	1.40	0.15	7.58			
	6th to 5th									
	LHS									
			1	29.1	1.30	0.15	5.67			
	RHS									
			1	29.1	1.30	0.15	5.67			
	7th cross Cross Rd 2									
	LHS									
			1	54	1.40	0.15	11.34			
	7th cross Cross Rd 2									
	RHS									
			1	54	1.40	0.15	11.34			
	for Culverts									
	Govt School Connecting Road		1	7.7	1.8	0.15	2.08			
	Front of Srinivas Sai Residency		1	5.8	2	0.15	1.74			
	Vinayaka Nagara 7th Cross		1	7.2	2	0.15	2.16			
			1	8	2	0.15	2.40			
			1	6.5	2	0.15	1.95			
			1	8.3	2	0.15	2.49			
	Temple to Appartment		1	5.8	1.8	0.15	1.57			
	Vinayakanagara 1st main		1	6.8	1.8	0.15	1.84			
	for SSM Drain									
	1st main Vinayaka nagara									
	LHS									
			1	65.7	2.10	0.15	20.70			
							Cum	**205.47**	3606.12	**740954.89**
	Basic Rate	3402								
	Area Weightage @6%	204.12								
	Total	**3606.1**								
6	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum								
	for Culverts									

	Govt School Connecting Road		2	7.7	0.60	0.50	4.62		
	Front of Srinivas Sai Residency		2	5.8	0.60	0.50	3.48		
	Vinayaka Nagara 7th Cross		2	7.2	0.60	0.50	4.32		
			2	8	0.60	0.50	4.80		
			2	6.5	0.60	0.50	3.90		
			2	8.3	0.60	0.50	4.98		
	Temple to Appartment		2	5.8	0.60	0.50	3.48		
	Vinayakanagara 1st main		2	6.8	0.60	0.50	4.08		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS								
			2	65.7	0.60	0.50	39.42		
						Cum	**73.08**	4871.76	**356028.22**
	Basic Rate	4596							
	Area Weightage @6%	275.76							
	Total	**4871.8**							
7	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Cum							
	for Culverts								
	Govt School Connecting Road		2	7.7	0.50	0.45	3.47		
	Front of Srinivas Sai Residency		2	5.8	0.50	0.45	2.61		
	Vinayaka Nagara 7th Cross		2	7.2	0.50	0.45	3.24		
			2	8	0.50	0.45	3.60		
			2	6.5	0.50	0.45	2.93		
			2	8.3	0.50	0.45	3.74		
	Temple to Appartment		2	5.8	0.50	0.45	2.61		
	Vinayakanagara 1st main		2	6.8	0.50	0.45	3.06		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS								
		Cum	2	65.7	0.50	0.45	29.57		
						Cum	**54.81**	5305.30	**290783.49**
	Basic Rate	5005							
	Area Weightage @6%	300.3							
	Total	**5305.3**							
8	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm							
	for CC Drain								
	Side Wall								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS								
			4	66.5		0.6	158.40		
	RHS								

			4	56		0.6	129.36		
	Govt School Connecting Road								
	RHS								
			4	58.8		0.6	134.93		
	Govt School Road								
	RHS								
			4	100.5		0.6	242.33		
	Vinayaka Nagara 7th Cross								
	RHS								
			4	113.5		0.7	302.00		
	LHS								
			4	136.9		0.65	355.94		
	Vinayaka Layout 6th Cross								
	RHS								
			4	72		0.6	167.99		
	7th to 6th Cross								
	RHS								
			4	36.1		0.6	92.42		
	6th to 5th								
	LHS								
			4	29.1		0.65	75.66		
	RHS								
			4	29.1		0.6	66.93		
	7th cross Cross Rd 2								
	LHS								
			4	54		0.6	119.88		
	7th cross Cross Rd 2								
	RHS								
			4	54		0.6	119.88		
	for Culverts(bottom)								
	Govt School Connecting Road		1	7.7	0.70		5.39		
	Front of Srinivas Sai Residency		1	5.8	0.90		5.22		
	Vinayaka Nagara 7th Cross		1	7.2	0.90		6.48		
			1	8	0.90		7.2		
			1	6.5	0.90		5.85		
			1	8.3	0.90		7.47		
	Temple to Appartment		1	5.8	0.60		3.48		
	Vinayakanagara 1st main		1	6.8	0.60		4.08		
	for Culvert sides								
	Govt School Connecting Road		2	7.7		0.23	3.542		
	Front of Srinivas Sai Residency		2	5.8		0.23	2.668		
	Vinayaka Nagara 7th Cross		2	7.2		0.23	3.312		
			2	8		0.23	3.68		
			2	6.5		0.23	2.99		
			2	8.3		0.23	3.818		
	Temple to Appartment		2	5.8		0.23	2.668		
	Vinayakanagara 1st main		2	6.8		0.23	3.128		
	for Culvert sides								
	Govt School Connecting Road		2		1.6	0.23	0.736		
	Front of Srinivas Sai Residency		2		1.8	0.23	0.828		
	Vinayaka Nagara 7th Cross		2		1.8	0.23	0.828		
			2		1.8	0.23	0.828		
			2		1.8	0.23	0.828		
			2		1.8	0.23	0.828		
	Temple to Appartment		2		1.5	0.23	0.69		
	Vinayakanagara 1st main		2		1.5	0.23	0.69		
						Sqm	**2042.95**	309.52	**632334.52**
	Basic Rate	292							
	Area Weightage @6%	17.52							
	Total	**309.52**							

9	Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and	Cum								
	for Culverts									
	Side Walls									
	Govt School Connecting Road		2	7.7	0.5	0.15	1.155			
	Front of Srinivas Sai Residency		2	5.8	0.5	0.15	0.87			
	Vinayaka Nagara 7th Cross		2	7.2	0.5	0.15	1.08			
			2	8	0.5	0.15	1.2			
			2	6.5	0.5	0.15	0.975			
			2	8.3	0.5	0.15	1.245			
	Temple to Appartment		2	5.8	0.5	0.15	0.87			
	Vinayakanagara 1st main		2	6.8	0.5	0.15	1.02			
	Vent Bed									
	Govt School Connecting Road		1	7.7	0.6	0.15	0.693			
	Front of Srinivas Sai Residency		1	5.8	0.8	0.15	0.696			
	Vinayaka Nagara 7th Cross		1	7.2	0.8	0.15	0.864			
			1	8	0.8	0.15	0.96			
			1	6.5	0.8	0.15	0.78			
			1	8.3	0.8	0.15	0.996			
	Temple to Appartment		1	5.8	0.6	0.15	0.522			
	Vinayakanagara 1st main		1	6.8	0.6	0.15	0.612			
	for SSM Drain									
	1st main Vinayaka nagara									
	LHS									
			2	65.7	0.50	0.10	6.57			
						Cum	**21.11**	5627.54	**118786.11**	
	Basic Rate	5309								
	Area Weightage @6%	318.54								
	Total	**5627.5**								
10	Providing Flush pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.and as per the directions of the Engineer-in-charge of the work .	Sqm								
	for Culverts									
	Govt School Connecting Road		2	7.7		0.5	7.7			
	Front of Srinivas Sai Residency		2	5.8		0.50	5.8			
	Vinayaka Nagara 7th Cross		2	7.2		0.50	7.2			
			2	8		0.50	8			
			2	6.5		0.50	6.5			
			2	8.3		0.50	8.3			
	Temple to Appartment		2	5.8		0.50	5.8			
	Vinayakanagara 1st main		2	6.8		0.50	6.8			
	for SSM Drain									
	1st main Vinayaka nagara									
	LHS									
			2	65.7		0.50	65.7			
						Sqm	**121.80**	223.66	**27241.79**	
	Basic Rate	211								

	Area Weightage @6%	12.66							
	Total	**223.66**							
11	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.875 cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc. including cost	Cum							
	Bottom Raft								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS								
			1	66.50	1.10	0.15	10.97		
	RHS								
			1	56.00	1.10	0.15	9.24		
	Govt School Connecting Road								
	RHS								
			1	58.80	1.10	0.15	9.70		
	Govt School Road								
	RHS								
			1	100.50	1.10	0.15	16.58		
	Vinayaka Nagara 7th Cross								
	RHS								
			1	113.50	1.10	0.15	18.73		
	LHS								
			1	136.90	1.10	0.15	22.59		
	Vinayaka Layout 6th Cross								
	RHS								
			1	72.00	1.10	0.15	11.88		
	7th to 6th Cross								
	RHS								
			1	36.10	1.10	0.15	5.96		
	6th to 5th								
	LHS								
			1	29.10	1.10	0.15	4.80		
	RHS								
			1	29.10	1.10	0.15	4.80		
	7th cross Cross Rd 2								
	LHS								
			1	54.00	1.10	0.15	8.91		
	7th cross Cross Rd 2								
	RHS								
			1	54.00	1.10	0.15	8.91		
	Side Wall								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS								
			2	66.5	0.15	0.5	9.98		
	RHS								
			2	56	0.15	0.6	9.24		

	Govt School Connecting Road								
	RHS		2	58.8	0.15	0.6	9.70		
	Govt School Road								
	RHS		2	100.5	0.15	0.6	18.18		
	Vinayaka Nagara 7th Cross								
	RHS		2	113.5	0.15	0.7	23.84		
	LHS		2	137.2	0.15	0.65	26.75		
	Vinayaka Layout 6th Cross								
	RHS		2	72	0.15	0.6	12.61		
	7th to 6th Cross								
	RHS		2	36.1	0.15	0.6	6.50		
	6th to 5th								
	LHS		2	29.1	0.15	0.6	5.33		
	RHS		2	29.1	0.15	0.7	5.67		
	7th cross Cross Rd 2								
	LHS		2	54	0.15	0.6	9.23		
	7th cross Cross Rd 2								
	RHS		2	54	0.15	0.7	10.53		
	For Culvert Slabs								
	Govt School Connecting Road		1	7.70	1.60	0.23	2.83		
	Front of Srinivas Sai Residency		1	5.80	1.80	0.23	2.40		
	Vinayaka Nagara 7th Cross		1	7.20	1.80	0.23	2.98		
			1	8.00	1.80	0.23	3.31		
			1	6.50	1.80	0.23	2.69		
			1	8.30	1.80	0.23	3.44		
	Temple to Appartment		1	5.80	1.50	0.23	2.00		
	Vinayakanagara 1st main		1	6.80	1.50	0.23	2.35		
	For Drain side filling								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS		1	66.5	0.15	0.15	1.50		
	RHS		1	56	0.15	0.15	1.26		
	Govt School Connecting Road								
	RHS		1	58.8	0.15	0.15	1.32		
	Govt School Road								
	RHS		1	100.5	0.15	0.15	2.26		
	Vinayaka Nagara 7th Cross								
	RHS		1	113.5	0.15	0.15	2.55		
	LHS		1	137.2	0.15	0.15	3.09		
	Vinayaka Layout 6th Cross								
	RHS		1	72	0.15	0.15	1.62		
	7th to 6th Cross								
	RHS		1	36.1	0.15	0.15	0.81		

	6th to 5th								
	LHS								
			1	29.1	0.15	0.15	0.65		
	RHS								
			1	29.1	0.15	0.15	0.65		
	7th cross Cross Rd 2								
	LHS								
			1	54	0.15	0.15	1.22		
	7th cross Cross Rd 2								
	RHS								
			1	54	0.15	0.15	1.22		
						Cum	**320.79**	5998.54	**1924271.35**
	Basic Rate	5659							
	Area Weightage @6%	339.54							
	Total	**5998.5**							
12	Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of	Tonne							
	for Drain 0.075ton/cum		280.64	0.075			21.05		
	for Culvert 0.09ton/cum		22.00	0.090			1.98		
						Tonne	**23.03**	75223.96	**1732242.17**
	Basic Rate	70966							
	Area Weightage @6%	4258							
	Total	**75224**							
13	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Which includes cost of gravel/murrum,	Cum							
	for Drain Side Filling								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS		1	66.5	0.15	0.45	4.49		
	RHS		1	56	0.15	0.45	3.78		
	Govt School Connecting Road								
	RHS		1	58.8	0.15	0.45	3.97		
	Govt School Road								
	RHS		1	100.5	0.15	0.45	6.78		
	Vinayaka Nagara 7th Cross								
	RHS		1	113.5	0.15	0.45	7.66		
	LHS		1	137.2	0.15	0.45	9.26		
	Vinayaka Layout 6th Cross								
	RHS		1	72	0.15	0.45	4.86		
	7th to 6th Cross								
	RHS		1	36.1	0.15	0.45	2.44		
	6th to 5th								
	LHS		1	29.1	0.15	0.45	1.96		
	RHS		1	29.1	0.15	0.45	1.96		
	7th cross Cross Rd 2								
	LHS		1	54	0.15	0.45	3.65		

	7th cross Cross Rd 2								
	RHS		1	54	0.15	0.45	3.65		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS		1	65.7	0.15	0.45	4.43		
						Cum	**58.89**	344.50	**20288.90**
	Basic Rate	325							
	Area Weightage @6%	19.5							
	Total	**344.5**							
14	Providing, laying spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the	Cum							
	for Drain Side Filling								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS		1	66.5	0.15	0.30	2.99		
	RHS		1	56	0.15	0.30	2.52		
	Govt School Connecting Road								
	RHS		1	58.8	0.15	0.30	2.65		
	Govt School Road								
	RHS		1	100.5	0.15	0.30	4.52		
	Vinayaka Nagara 7th Cross								
	RHS		1	113.5	0.15	0.30	5.11		
	LHS		1	137.2	0.15	0.30	6.17		
	Vinayaka Layout 6th Cross								
	RHS		1	72	0.15	0.30	3.24		
	7th to 6th Cross								
	RHS		1	36.1	0.15	0.30	1.62		
	6th to 5th								
	LHS		1	29.1	0.15	0.30	1.31		
	RHS		1	29.1	0.15	0.30	1.31		
	7th cross Cross Rd 2								
	LHS		1	54	0.15	0.30	2.43		
	7th cross Cross Rd 2								
	RHS		1	54	0.15	0.30	2.43		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS		1	65.7	0.15	0.3	2.96		
						Cum	**39.26**	2001.28	**78575.26**
	Basic Rate	1888							
	Area Weightage @6%	113.28							
	Total	**2001.3**							

15	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shuttering machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications C : C 1:1.5:3 Including all cost of material (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab. and as per the directions of the Engineer-in-charge of the work .	Sqm							
	for CC Drain								
	Baskaramma Nilaya								
	Cross Road-1								
	LHS		1	66.5	0.90		59.85		
	RHS		1	56	0.90		50.40		
	Govt School Connecting Road								
	RHS		1	58.8	0.90		52.92		
	Govt School Road								
	RHS		1	100.5	0.90		90.45		
	Vinayaka Nagara 7th Cross								
	RHS		1	113.5	0.90		102.15		
	LHS		1	136.9	0.90		123.21		
	Vinayaka Layout 6th Cross								
	RHS		1	72	0.90		64.80		
	7th to 6th Cross								
	RHS		1	36.1	0.90		32.49		
	6th to 5th								
	LHS		1	29.1	0.90		26.19		
	RHS		1	29.1	0.90		26.19		
	7th cross Cross Rd 2								
	LHS		1	54	0.90		48.60		
	7th cross Cross Rd 2								
	RHS		1	54	0.90		48.60		
	for SSM Drain								
	1st main Vinayaka nagara								
	LHS		1	65.7	1.2		78.84		
						Sqm	**804.69**	2337.00	**1880560.53**
	Data Rate	**2337**							
16	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete and as per the directions of the Engineer-in-charge of the work .	Mtr							
			1	210.00			210.00		
						Mtr	**210.00**	394.32	**82807.20**

	Basic Rate	372							
	Area Weightage @6%	22.32							
	Total	**394.32**							
17	Laying Reinforced cement concrete pipe NP2/ Prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement martar 1:2 but excluding excavation, protection works, backfilling and masonry works in head walls and parapet complete as per specifications. and as per the directions of the Engineer-in-charge of the work .	Mtrs							
			6	2.50			15.00		
	Basic Rate	5638				Mtrs	**15.00**	5976.28	**89644.20**
	Area Weightage @6%	338.28							
	Total	**5976.3**							
18	Providing 100mm and down nominal size and as per the directions of the Engineer-in-charge of the work .		6	0.28	0.6		1.01		
	for Pit(Area-3.14xD2/4)	Cum				Cum	**1.01**	987.62	**995.52**
19	Providing 40mm and down nominal size and as per the directions of the Engineer-in-charge of the work .		6	0.28	0.4		0.67		
	for Pit(Area-3.14xD2/4)	Cum				Cum	**0.67**	1091.43	**733.44**
20	Providing 20mm and down nominal size and as per the directions of the Engineer-in-charge of the work .		6	0.28	0.40		0.67		
	for Pit(Area-3.14xD2/4)	Cum				Cum	**0.67**	1091.43	**733.44**
21	Providing fine aggregate 2.36 nominal size and as per the directions of the Engineer-in-charge of the work .		6	0.28	0.30		0.504		
	for Pit(Area-3.14xD2/4)	Cum				Cum	**0.50**	**1054.29**	**531.36**
22	Loading and Unloading of stone boulders by manual means complete as per specificatiion and as per the directions of the Engineer-in-charge of the work .	Cum							
			Qty Vide Item No.1				1235.57		
	Basic Rate	57				Cum	**1235.57**	**60.42**	**74652.93**
	Area Weightage @6%	3.42							
	Total	**60.42**							

							Grand Total		**8363771.03**
23	For 12% Applicable GST								1003652.52
24	For 4% KRIDL Charges								334550.84
25	For 2% of DPR And PMC Charges								198000
26	Miscellaneous Charges	L/S							25.61
									9900000.00

Certificate

1 The Work Spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 This Estimate Grant under SC-SP/TSP Mukyamantrigala Nava Bengaluru Yojane.
4 The Provisions were made in this estimate are necessary and adequate.
5 This work come under B.B.M.P.limits.

Assistant Engineer
Ward No. 05(Jakkur)

Executive Engineer
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Project Yelahanka

Administrative Approval
Accorded For RS 99.00 Lakhs
Head of A/C P-3727
CER NO : 21 Dt: 04/11/2019
E.E. (Project) 4/11

Technical Sanction
Accorded For RS 99.00 lakhs
Head of A/C P 3727
CER NO : 159 Dt 06.11.20
TA CE (YNK)